Nr0b1 Gene Detail

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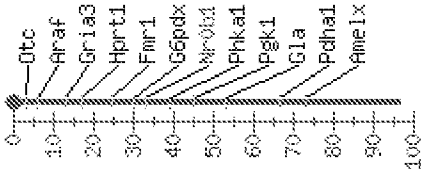
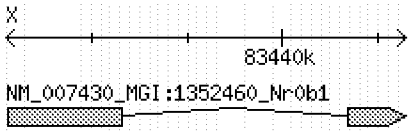
Symbol Name ID	**Nr0b1** nuclear receptor subfamily 0, group B, member 1 MGI:1352460 Nomenclature History
Synonyms	Ahc, Ahch, AHX, DAX-1, Dax1
Genetic Map	Chromosome X 33.0 cM Detailed Genetic Map ± 1 cM Mapping data(8) 
Sequence Map	ChrX:83437103-83441286 bp, + strand (From VEGA annotation of NCBI Build 37) VEGA ContigView | Ensembl ContigView | UCSC Browser | NCBI Map Viewer  Mouse Genome Browser
Mammalian homology	human; chimpanzee; dog, domestic; rat (Mammalian Orthology) Comparative Map (Mouse/Human Nr0b1 ± 2 cM) TreeFam: TF332386
Sequences	Representative Sequences — Length — Strain/Species — Flank ☐ genomic OTTMUSG00000017945 VEGA Gene Model | MGI Sequence Detail 4184 C57BL/6J ± 0 Kb ☐ transcript NM_007430 RefSeq | MGI Sequence Detail 1794 - ☐ polypeptide Q61066 UniProt | EBI | MGI Sequence Detail 472 Not Applicable *For the selected sequences* download in FASTA format Go All sequences(17)
Phenotypes	All phenotypic alleles(2) : Targeted, knock-out(1) Targeted, other(1) Mutations that inactivate this X-linked gene result in abnormal repoductive development in the hemizygote, ranging from defects in testes development and spermatogenesis to complete male to female sex reversal depending on genetic background. Associated Human Diseases (1) Alleles Annotated to Human Diseases (1)
Polymorphisms	All PCR and RFLP(2) : PCR(1) RFLP(1) SNPs within 2kb(53 from dbSNP Build 128)
Gene Ontology (GO) classifications	Process: adrenal gland development, cell differentiation... Component: cytoplasm, nucleus... Function: DNA binding, ligand-dependent nuclear receptor activity... All GO classifications(29)
Expression	Literature Summary: (24 records) Data Summary: Assays (8) Results (210) Tissues (171) Images (19) Theiler Stages: 2,3,4,5,6,17,18,19,20,21,22,24,28 Assay Type Assays Results

	RT-PCR 3 76 RNA in situ 4 128 Immunohistochemistry 1 6 cDNA source data(8) External Resources: Allen Brain Atlas GEO
Other database links	Ensembl Gene Model ENSMUSG00000025056 DoTS DT.50316329 UniGene 5180 DFCI TC1585098 Entrez Gene 11614 VEGA Gene Model OTTMUSG00000017945
Protein domains	InterPro ID Description IPR000536 Nuclear hormone receptor, ligand-binding, core IPR001723 Steroid hormone receptor IPR008946 Nuclear hormone receptor, ligand-binding Graphical View of Protein Domain Structure
Molecular reagents	All nucleic(21) Genomic(7) cDNA(8) Primer pair(5) Other(1) Antibodies(1)
References	(Earliest) J:32081 Swain A *et al.*, "Mouse Dax1 expression is consistent with a role in sex determination as well as in adrenal and hypothalamus function." Nat Genet 1996 Apr;12(4):404-9 (Latest) J:140785 Moldrich RX *et al.*, "Transmembrane protein 50b (C21orf4), a candidate for Down syndrome neurophenotypes, encodes an intracellular membrane protein expressed in the rodent brain." Neuroscience 2008 Jul 17;154(4):1255-66 All references(83)
Other accession IDs	MGD-MRK-33777, MGD-MRK-37435, MGI:108393